

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An optical microscope suitable for ~~observation of~~
~~observing~~ several spots of an object placed in an object plane of the microscope, comprising:
_____ a light source;
_____ an objective; and ~~a light beam coming from the light source, microscope~~
~~comprising~~
_____ a modifiable optical transmission screen; comprising zones each presenting a first passing state and a second closed state, the modifiable optical transmission screen being placed on an optical ~~the path of the optical beam~~ upstream from the object and ~~able to generate~~ that generates in the object plane an image coinciding substantially with the spots of the object to be observed.
2. (Withdrawn-Currently Amended) The microscope ~~Microscope~~ according to claim 1, wherein the modifiable optical transmission screen comprises a matrix of mirrors, each of the mirrors presenting a first position enabling ~~at the light beam~~ from the light source to be reflected to the object and a second position enabling the light beam to be diverted from the optical path leading to the object.
3. (Currently Amended) The microscope ~~Microscope~~ according to claim 1, wherein the modifiable optical transmission screen comprises a matrix of liquid crystal elements, each of the liquid crystal elements presenting a first transparent state and a second opaque state.
4. (Currently Amended) The microscope ~~Microscope~~ according to claim 3, wherein the liquid crystal elements of the matrix of liquid crystal elements present at least a third polarising state.

5. (Withdrawn-Currently Amended) The microscope ~~Microscope~~ according to claim 1, wherein the modifiable optical transmission screen is arranged directly on the object.

6. (Withdrawn-Currently Amended) The microscope ~~Microscope~~ according to claim 1, wherein the object is arranged between the objective and the modifiable optical transmission screen.

7. (Currently Amended) The microscope ~~Microscope~~ according to claim 1, wherein the light source is formed by an array of light-emitting diodes.

8. (Currently Amended) The microscope ~~Microscope~~ according to claim 7, wherein the array of light-emitting diodes comprises light-emitting diodes of different ~~colours~~ colors.

9. (Currently Amended) An operating process of ~~an~~ the optical microscope according to claim 7, comprising lighting of the object by emission of a series of light impulses at preset intervals.